

4

3

2

1

COMPONENT	MATERIAL	FINISH
HOUSING JAM NUT LOCK WASHER	STAINLESS STEEL PER ASTM-A-484 OR ASTM-A-582 TYPE 303	PASSIVATED PER ASTM-A-380
DIELECTRIC	PTFE FLUOROCARBON PER ASTM-D-1457	---
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196 OR 197 ALLOY C17300, CONDITION H	GOLD PLATED PER ASTM-B-488
"O" RING	SILICONE RUBBER PER A-A59588	---
FERRULE	COPPER OR BRASS ALLOY, ROCKWELL F65 MAX	GOLD PLATED PER ASTM-B-488
---	---	---
---	---	---
---	---	---
---	---	---

ENVIRONMENTAL	
TEMPERATURE RATING:	-65°C TO +165°C
VIBRATION:	MIL-STD-202, METHOD 204, CONDITION D
SHOCK:	MIL-STD-202, METHOD 213, CONDITION 1
MOISTURE RESISTANCE:	MIL-STD-202, METHOD 106
CORROSION:	MIL-STD-202, METHOD 101, CONDITION B. 5% SALT SPRAY
THERMAL SHOCK:	MIL-STD-202, METHOD 107, CONDITION B EXCEPT HIGH TEMP 85°C

MECHANICAL	
INTERFACE DIMENSIONS:	MIL-STD-348A FIG. 310.2
RECOMMENDED MATING TORQUE:	7-10 IN-LBS
FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX):	2.0
WEIGHT (GRAMS):	TBD
MATING CHARACTERISTICS:	INSERTION (MAX LBS) 2 WITHDRAWAL (MIN OZ): 1
CABLE RETENTION:	AXIAL FORCE (LBS) 45 TORQUE (IN-OZ): N/A
CENTER CONTACT CAPTIVATION:	AXIAL (LBS): 6.0 RADIAL (IN-OZ): N/A

ELECTRICAL	
NORMAL IMPEDANCE (OHMS):	50
FREQUENCY RANGE (GHz):	DC TO 12.4
VOLT RATING @ SEA LEVEL (VRMS MAX):	335
VSWR:	1.15+0.01f(GHz)
INSERTION LOSS: (dB MAX):	.06 $\sqrt{f(\text{GHz})}$
RF LEAKAGE (dB MIN):	-60 @ 2-3GHz
CORONA 70,000 FT (VRMS MIN):	250
DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL:	1000
I.R. (MEGOHMS MIN):	5000
RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz):	670
CONTACT RESISTANCE (MILLIOHMS MAX):	CENTER CONTACT: 3.0 OUTER CONTACT: 2.0 CABLE TO HOUSING: 0.5

AS SHIPPED TO CUSTOMER

ASSEMBLED VIEW

Labels: CENTER CONTACT DIELECTRIC, HOUSING, JAM NUT, LOCK WASHER, "O" RING, FERRULE, CABLE (CUSTOMER SUPPLIED)

Dimensions:

- 1.265 [32.13] MAX
- .450 ± .010 [11.43 ± 0.25]
- .103/.055 [2.62/1.40] PANEL THICKNESS
- ∅.281^{+0.004}_{-0.000} [7.14^{+0.10}_{-0.00}]
- .125^{+0.003}_{-0.000} [3.18^{+0.08}_{-0.00}]
- .250-36 UNS-2A
- .312 [7.92] HEX
- .437 [11.10] HEX

RECOMMENDED PANEL CUTOUT

ASSEMBLED VIEW

DESIGNED TO USE	
RG-142/U OR EQUIVALENT	
CABLE ENTRY DIAMETER MIN	
HOUSING:	.121 [3.07]
CONTACT:	.040 [1.02]
DIELECTRIC:	N/A
FERRULE:	.216 [5.49]

DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
INCHES	[mm]	PLC	±
0		PLC	±
1		PLC	±
2		PLC	±
3		PLC	± .005 [0.13]
4		PLC	±
MATERIAL		FINISH	
SEE TABLE		SEE TABLE	

THIS DRAWING IS A CONTROLLED DOCUMENT.	
DWN	J. KAISER 9/17/02
CHK	J. LIPPERT 10-18-02
APVD	J. LIPPERT 10-18-02
PRODUCT SPEC	
APPLICATION SPEC	
408-4923	
WEIGHT	TBD
CUSTOMER DRAWING	

tyco Electronics		Tyco Electronics Corporation	
Harrisburg, PA 17105		Harrisburg, PA 17105	
NAME			
SMA STRAIGHT BULKHEAD FEEDTHRU CABLE JACK-CRIMP ATTACHMENT (M39012/59B3022) CAT B			
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	1051989	-
SCALE		SHEET	REV
5:1		1 of 1	0

1051989-1
PART NO.

AMP 1471-9 REV 31MAR2000

J:\DEPT1733\U.DIES\john_lippert\1253627_1_c.dwg

MA/COM # 2034-8022-92

1051989

A